

NEN-EN 15288-2 artikel 6.1.6

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Excerpt

6.1.6 Operation of water treatment systems

A dye test of the water circulation system of every pool, according to Annex A, shall be performed at the time of commissioning.

NOTE It is recommended that the dye test be repeated every 5 years, to ensure that all components are still working effectively.

Procedures for the operation of the water treatment system shall primarily conform to the operating instructions given by the manufacturer of the equipment. The procedures shall include a requirement to maintain a log book for the equipment.

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Excerpt

Annex A (normative)

Dye test – Operational Instructions

A.1 Provide a quantity of Eriochrom Black T of about 100 g every 500 m³ of basin water. Consider the basin volume plus 60 % of the usable volume of balance tank, if any.

A.2 During the test bypass components of the water treatment equipment which use filtering media which can interfere with the pigment (e. g. active carbon, hydro anthracite) to avoid adsorption, and set up the equipment to compensate the lowered water column. A.3 Lower to 0 the chlorine value, e. g. by using thiosulphate. A.4 Prepare a 1 % solution of Eriochrom Black T in water with a zero chlorine content (100 g pigment each 10 l water), in the quantity of 10 l of solution every 500 m³ of basin water as defined in A.1.

A.5 Apply the solution into the circulation system:

- in the balance tank or into an outlet of the overflow channel; or
- into a skimmer; or
- through a dosing pump and an injector into the piping of the water treatment system.

Application shall be such that a continuous flow of pigmented water in the basin is granted for at least 15 min.

A.6 Verify the progress of colouration, and register it through photographs or a video recording. Measure the time lapse from the initial apparition of pigmented water into the basin up to a complete colour uniformity.

A.7 Compliance with the first part of the Dye test is achieved if the uniformity is reached within 15 min.

A.8 Wait until stabilisation is achieved.

A.9 Apply at the same point chlorine, with the same criteria used for Eriochrom Black T, in a quantity of about 5 mg/l of basin water.

A.10 Verify the progress of water clarification and register it through photographs or video recording. Measure the time lapse from the initial application of chlorine up to a complete water clarification.

A.11 Compliance with the second part of the dye test is achieved if the clarification is reached within 15 min.